

- * SWBAT differentiate between mass, weight, and volume
- * SWBAT define and measure motion and speed

Sep 6-2:31 PM

Welcome!!!

SECA Physics
Wednesday 7 October 2015

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Centering...

- * Pick up:
 - slip of paper (for later)

https://www.youtube.com/watch?v=_Z0X0yE8loc

Opening Activity:

"MOV"

How can we define motion???

- GRAVITY PULLS THINGS DOWN
- FORCE

Bill Nye - Motion

<https://www.youtube.com/watch?v=gF3GV4EKIPQ>

NEW PLACE

Sep 7-7:04 AM

Motion is change in position ^{COMPARED} relative to a fixed point
 IS BILL NYE MOVING? YES - PLATFORM
 NO - CAMERA

CHANGE IN

$$\text{SPEED} = \frac{\Delta \text{DISTANCE}}{\Delta \text{TIME}}$$

Speed is change in **distance** over change in **time**

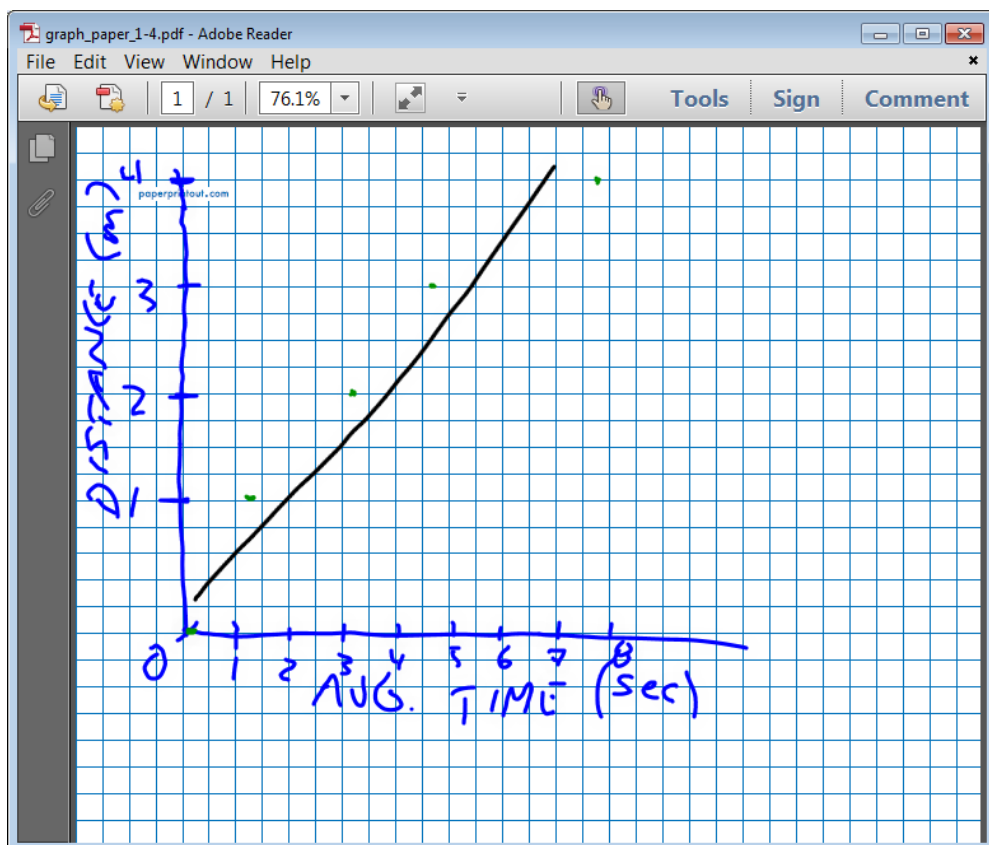
Let's observe motion...

Oct 4-7:27 AM

- Collect data in Excel
- Rules for good graphs...
- Let's graph distance vs. time together...

	A	B	C	D	E	F	G
Bowling Ball motion							
Distance (m)	0	1	2	3	4	5	
Time #1 (s)	0	0.84	1.72	2.70	3.69		
Time #2 (s)	0	0.97	1.76	2.60	3.59		
Time #3 (s)	0	0.84	1.81	2.86	3.59		
Average time (s)		0.88	1.76	2.72	3.62	0.00	
Δ distance (m)		1	1	1	1		
Δ time (s)		0.9	0.9	1.0	0.9		
Speed (m/s)		1.13208	1.13636	1.0453	1.10701		

Oct 3-7:40 AM



Sep 30-9:06 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. MOTION is measured relative (or compared) to a fixed point.

2. For our experiment, when did we start our stopwatches?

A. When the ball was released

B. When the ball got to the bottom of the ramp

C. When the ball passed the mark in front of the person timing

3. SPEED = $\frac{\text{change in distance}}{\text{change in time}}$

Sep 14-7:28 AM